

§4. Data Display System for CHS Experiments

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Before the development of our new data display system, CHS diagnostic data was displayed on Tektronix terminal connected to VAX computer system which manages the Data Acquisition System (DAS) for CHS experiments.

A new data display system has been developed based on the Xwindow System on an engineering workstation. Channel data files of a diagnostic taken from the experiment database (maintained by a VAX computer system) can be displayed in multi-frame format using X windows. A maximum of 16 frames can be shown simultaneously for a survey of the total time sequence of one discharge shot (outline figures).

An Xwindow based GUI (Graphical User Interface) is available to control the experimental data display system.

The following functions are now implemented:

- Select a special group of data from the outline figures and display it in the work space.
- Change the range and time interval of figures shown in the work space.
- Overwrite several groups of data on the same chart for comparison.
- Make a hard copy of the window.

A sample is illustrated in the accompanying Fig.1. This system is still under development. For example, a simple method of gathering data for analysis is needed.

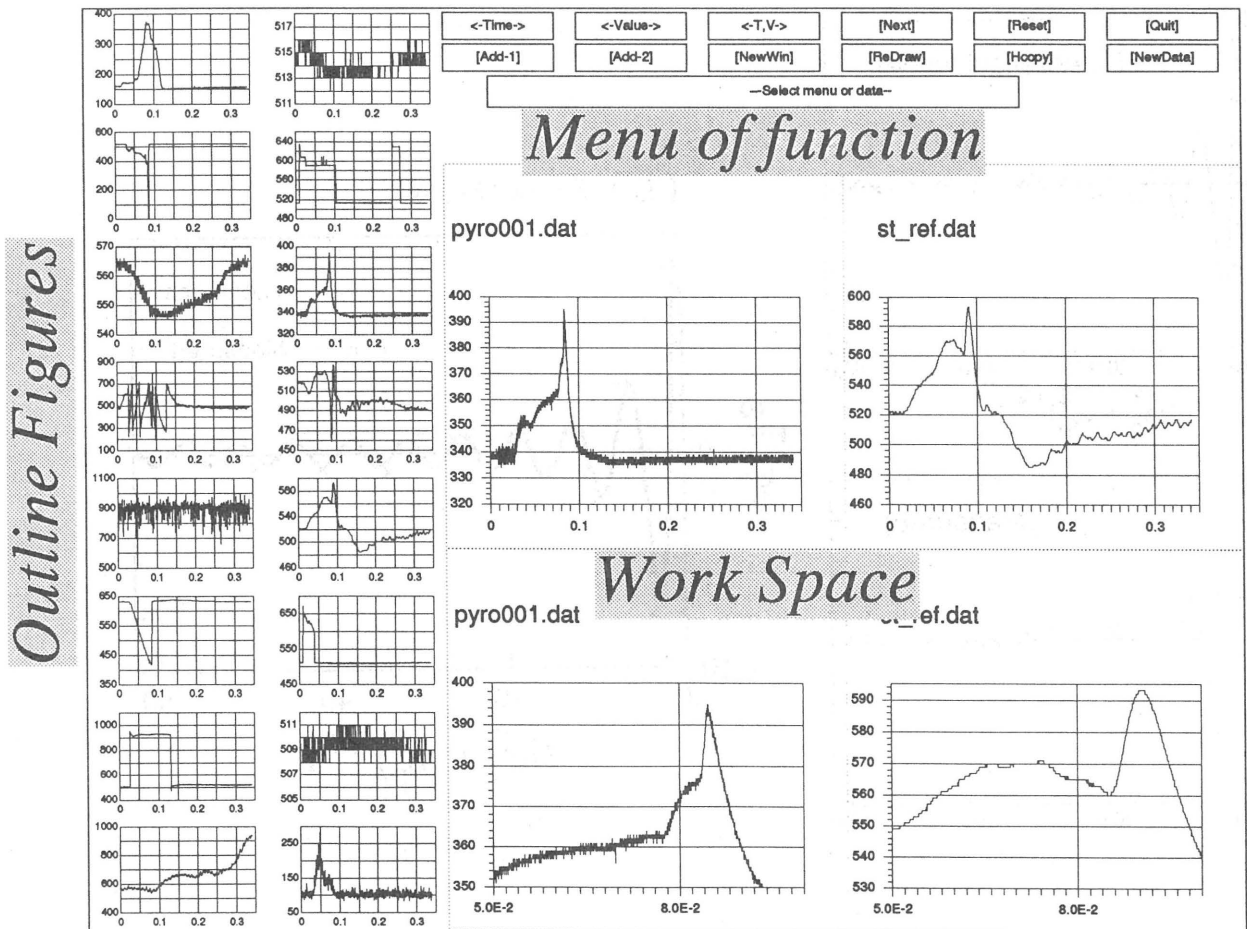


Fig.1 Example of a data treatment.